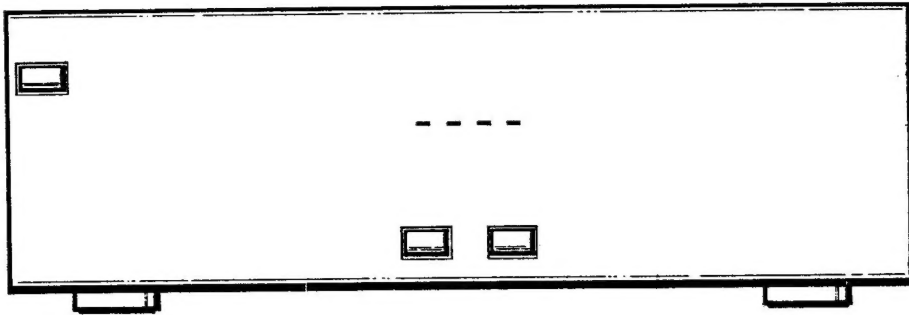


**SERVICE
MANUAL**

UMA - 200
STEREO MAIN AMPLIFIER



SPECIFICATIONS

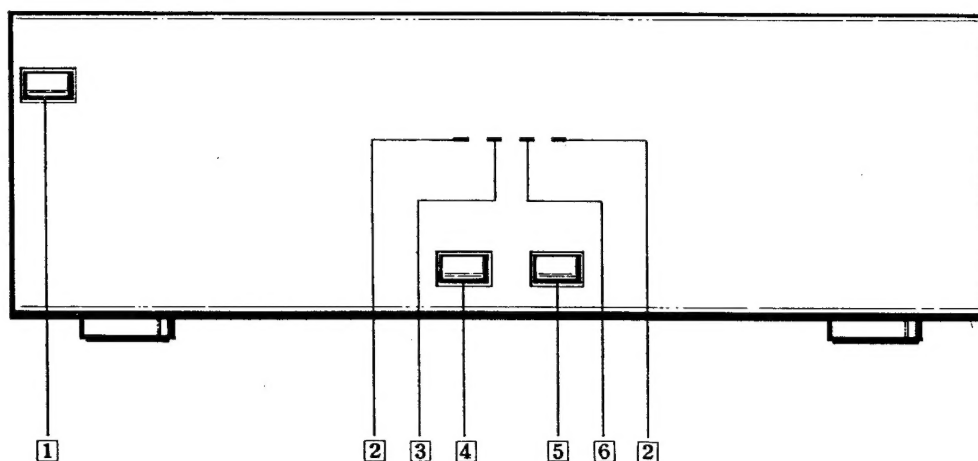
Amplifier Section

Continuous average power output (both channel driven)	
into 8 Ohms(from 20Hz to 20kHz)	144W
into 8 Ohms(from 1kHz)	150W
Total Harmonic Distortion	
into 8 Ohms(from 20Hz to 20kHz)	0.08%
Signal to Noise Ration(IHF "A" Network)	114 dB
Input(Sensitivity / Impedance)	1V / 56K Ω
Frequency Response	
6Hz to 110kHz	-3dB
Power "ON" Muting Time	5 Sec

Miscellaneous

Power requirements	AC220V,50Hz
Power consumption	520W
Dimensions(W X H X D)	420 X 130 X 380mm

FRONT PANEL FEATURES



1 POWER SWITCH

Press the switch to supply power to the amplifier.

2 OUTPUT LEVEL METER

The output power level meters give a visual indication of audio power being delivered to each speaker.

3, 6 PROTECTION CIRCUIT OPERATION INDICATOR LAMP

The red LED indicates when the protection circuit is activated and the green LED indicates when the protection circuit is off.

The protection circuit activate for 5-7 SEC when the Power is "ON" or a heat beyond a specific temperature.

4 SPEAKER "A" SELECTOR SWITCH

Press button to listen to the sound connected to the speaker terminal A.

[ON] -Pressed position ; The sound is heard from speaker system A.

[OFF] -Released position ; The sound is not heard from speaker system B.

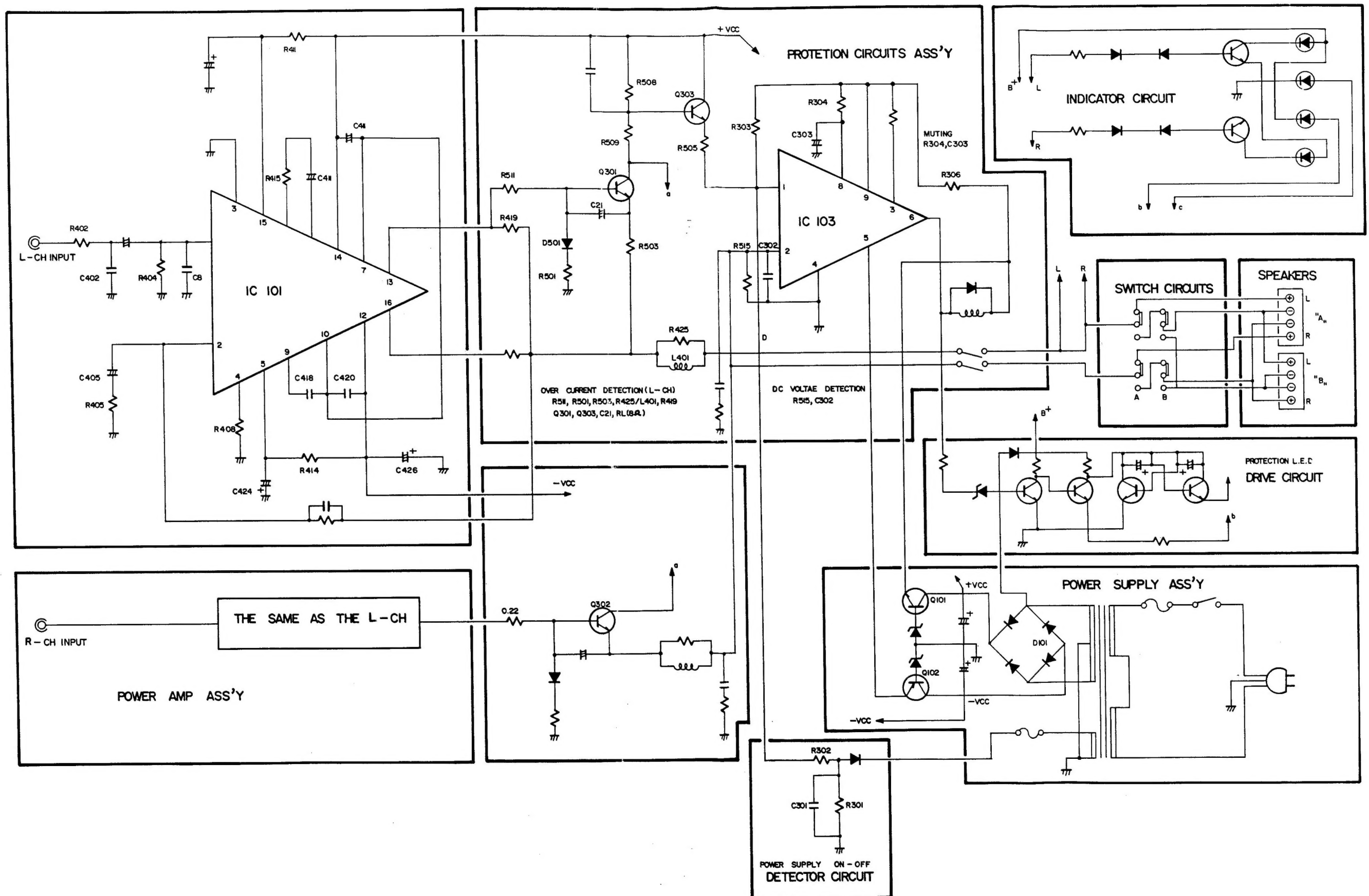
5 SPEAKER "B" SELECTOR SWITCH

Press button to listen to the sound connected to the speaker terminal B.

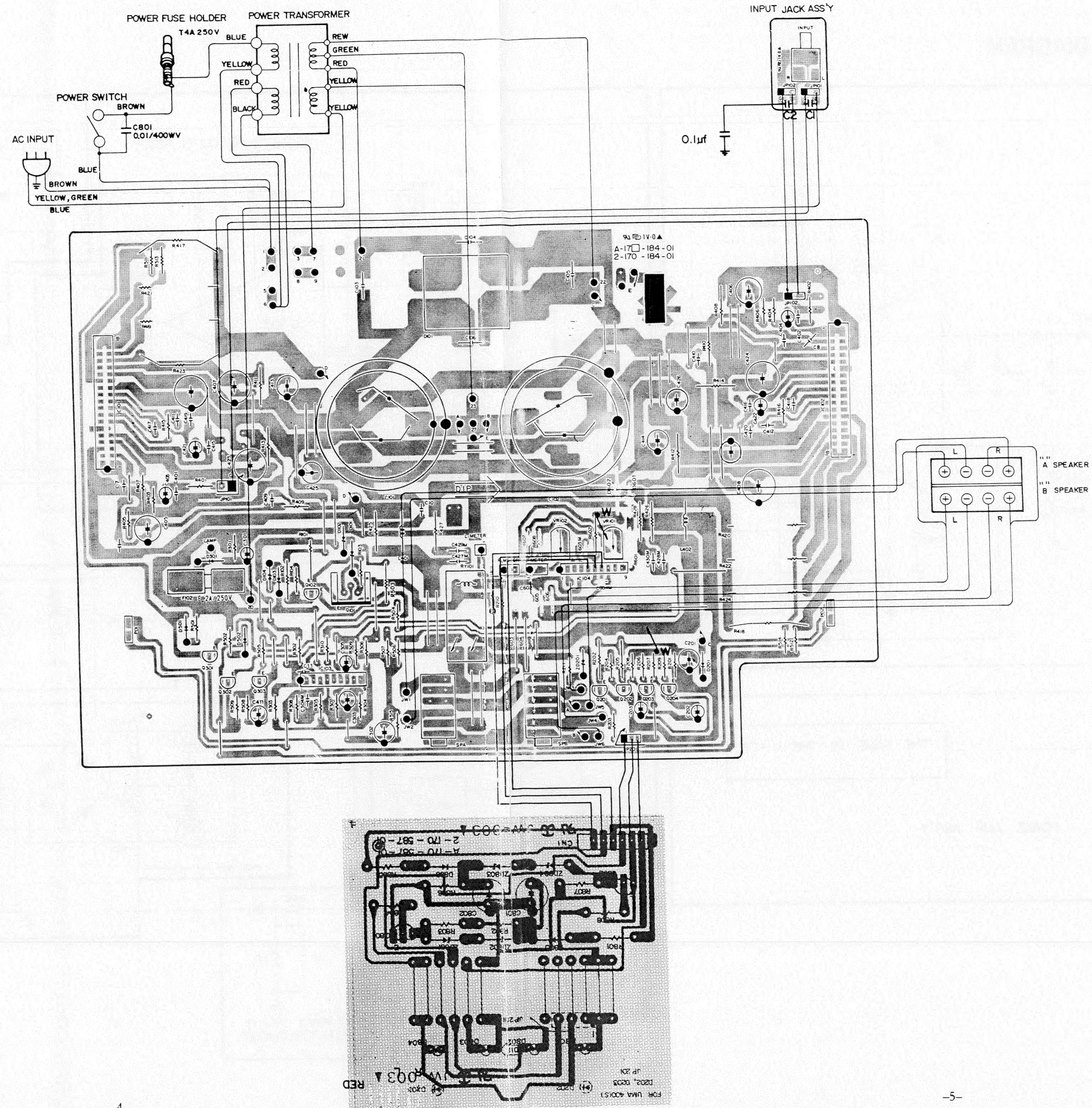
[ON] -Pressed position ; The sound is heard from speaker system B.

[OFF] -Released position ; The sound is not heard from speaker systems A.

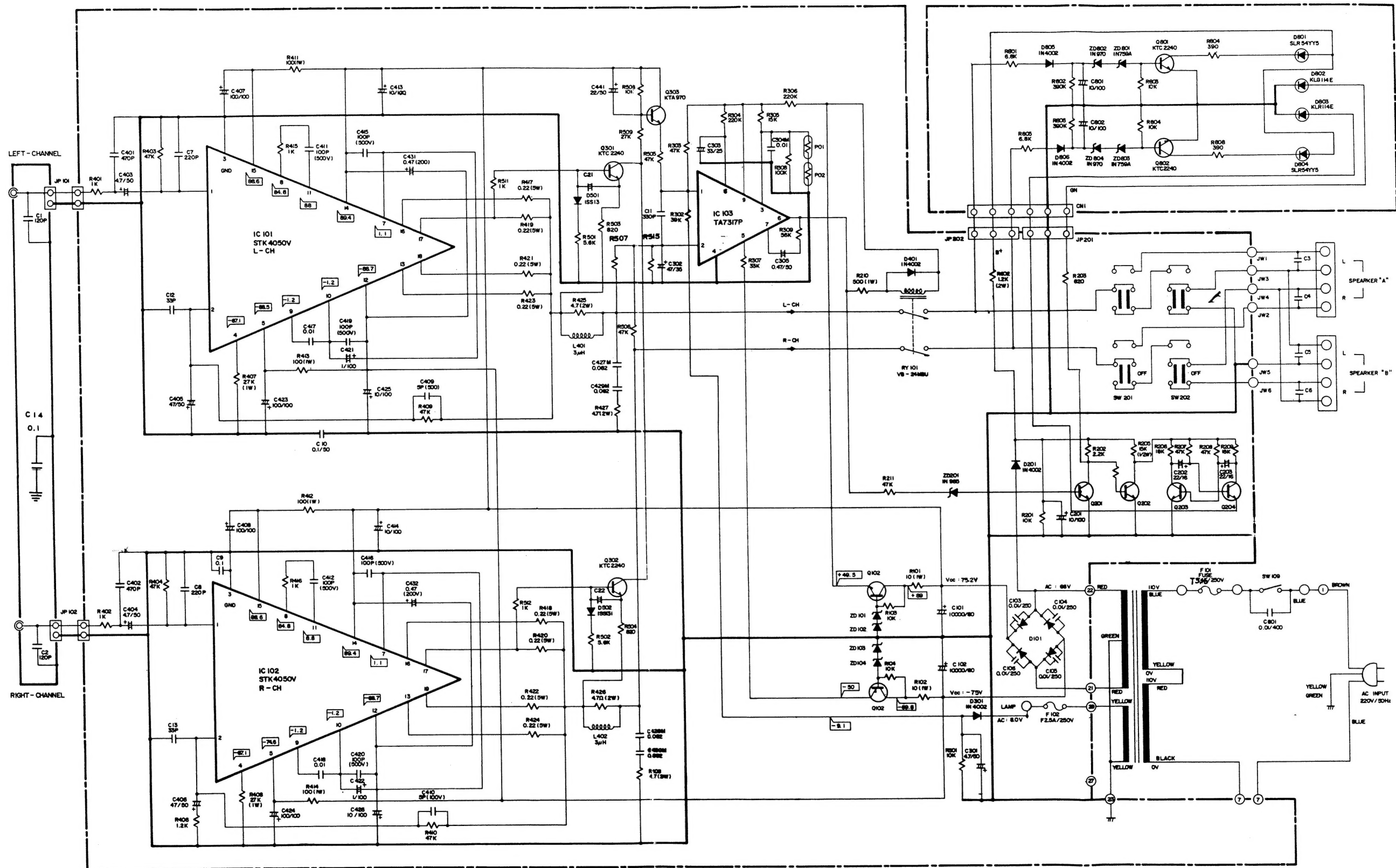
BLOCK DIAGRAM



WIRING DIAGRAM



SCHEMATIC DIAGRAM



NOTES
THE FOLLOWING UNITS AND FIGURES ARE USED WITHOUT WRITING IN THIS SCHEMATIC
VOLTAGE : V RESISTANCE : Ω 10³ : K
CURRENT : A CAPACITANCE : F 10⁶ : M
POWER : W INDUCTANCE : H 10⁹ : μ
ALSO, 1/4 IN POWER, 10³ IN CHARGE, 50V IN CAPACITOR ARE OMITTED
R, L, C AND THEIR NUMBERS ARE THE PART POSITION IN P.C.B
→ : SIGNAL ROUTE
⊖ : DC VOLTAGE AT UNLOADED

Q101 : KTC 2240
Q102 : KTA 948
Q201 ~ Q204, Q301, Q302 : KTC 2240
Q303 : KTA 970
D101 : KBPC 25A
ZD101 ~ ZD104 : IN 6708
C1, C4, C5, C6 : 0.005/500
C2, C22 : 1/50 (NP)